Service Bulletin

Bulletin No.: PIP5189

Date: Apr-2014

## PRELIMINARY INFORMATION

Subject: Black Smoke On Cold Start

Models: 2014 Chevrolet Corvette, Silverado

2014 GMC Sierra

2015 Chevrolet Tahoe, Suburban, GMC Yukon / XL

2015 Cadillac Escalade

With engines 4.3L, 5.3L, 6.2L L83, L86, LT1, LV3

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

## Condition/Concern

With the introduction of direct fuel injection systems, GM has revised the cold start control system to reduce cold start emissions.

Quicker catalytic converter heating helps meet the ever changing emission requirements and improve fuel economy.

## Recommendation/Instructions

A dual-pulse injection strategy is utilized during engine cold start to reduce the time required to bring the catalytic converter up to operating temperature.

This split injection strategy lasts for about 60 seconds on cold start.

This process may cause the customer to see increased black smoke, soot, during cold start and should be considered normal.

The use of TOP TIER fuels lessens the effects during dual pulse injection by reducing the amount of carbon on valve train components and a more complete combustion leading to cleaner burn.

This cold start strategy is enabled upon start up after the engine has soaked for sufficient time such that the catalytic converter requires rapid reactivation.

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safety. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.

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